

To: Allen, HarryL[Allen.HarryL@epa.gov]; Rogow, Michelle[Rogow.Michelle@epa.gov]; Calanog, Steve[Calanog.Steve@epa.gov]
Cc: Jeff Phillips[Jeff_Phillips@fws.gov]; jordan.stout@noaa.gov[jordan.stout@noaa.gov]; catherine.berg@noaa.gov[catherine.berg@noaa.gov]; Schommer, Mike@Wildlife[Mike.Schommer@wildlife.ca.gov]; Castellana, Ben[Ben.Castellana@WestonSolutions.com]; Wade Bryant[wade.bryant@c-ka.com]
From: Black, Ned
Sent: Fri 5/29/2015 2:27:51 AM
Subject: Urchin bioassay results
[1505050 FINAL 05 27 15 1643.pdf](#)
[1505050 FINAL EXCEL 27 May 15 1643.xls](#)

All,

The original 213 which brought me to the Refugio incident was for collection of seawater for sea urchin fertilization bioassays to be conducted at the EPA R9 Lab. I collected the water samples on 5/25/2015 and had unvalidated results by the evening of 5/26. Attached are the full results of those bioassays. The QASP for this work is had an error in the list of sampling locations and it is being revised to reflect the locations we intended to and did sample. Those were:

Off Goleta Pier, 34o 24.86' N 119o 49.889' W Samples D012s and D012b
Off Coal Oil Point, 34o 24.215' N 119o 52.841' W Samples D011s and D011b
Off Refugio North, 34o 27.549' N 120o 04.36' W Samples D002s, D002b
Off Release Confluence, 34o 27.5'N 120o 05.1' W, Samples D001s, D001b

In addition, Tara Fitzgerald collected two samples with CTEH from Off Refugio South, Samples RFO-052515-001-00 and RFO-052515-001-17. CTEH has the lat/long for those samples.

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Please be advised I currently have limited access to email when I am not in the office (e.g., on travel), therefore please be patient with any communication delays.

-----Original Message-----

From: Husby, Peter
Sent: Wednesday, May 27, 2015 4:55 PM
To: Black, Ned
Cc: Wagner, Amy
Subject: Emailing: 1505050 FINAL 05 27 15 1643

Ned,

Here is a copy of the final report as a pdf and an excel spreadsheet. If you need more raw data let us know. The pdf calls the endpoint an EC50 but it is really a pass-fail on a t-test. I can't get the LIMS to allow a different endpoint, since the reference toxicant endpoint is an EC50. We can get you copies of the TST output for each comparison if needed. The bottom line is they are non-toxic.

If you have any questions, please contact me.

Peter
Peter Husby
Field & Biology Team Leader
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